



General Systems Division
Programming Announcement

P681-11
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**IBM 5280 DISTRIBUTED DATA SYSTEM
RELEASE 2 PROGRAMMING
ANNOUNCED AND AVAILABLE**

Release 2 of the following 5280 programs is now available from PID:

- 5280 System Control Programming (5708-SC1)
- 5280 Assembler Language (5708-AS1)
- 5280 Communications Utilities (5708-DC1)
- 5280 DE/RPG (5708-DE1)
- 5280 Sort/Merge(5708-SM1)
- 5280 Utilities (5708-UT1)

Highlights

System Control Programming (SCP)

The System Configuration Program has been modified to support the following:

- Second Application Microprocessor feature (#6800). Prompts are provided to allow the user to specify the partitions to be serviced by each application microprocessor.
- New maximum of eight printers on the 5288 Programmable Control Unit. New support allows the 5288 to be configured with up to eight printers.
- Additional main storage capacity on the 5288 Programmable Control Unit. New support allows configurations of the 5288 with up to 288K of main storage capacity.

Communications Utilities

The 5280 is now supported by ACF/TCAM Version 2. Programming support of communicating models of the 5285 Programmable Data Station and the 5288 Programmable Control Unit is now available for users of ACF/TCAM Version 2 under OS/VS1 and OS/VS2.

The 5280 communicates to ACF/TCAM as an LU1 secondary station using SNA/SDLC and as a 3741 using BSC link protocol as described in the 5280 *Communications Reference Manual* (SC34-0247). The 5280 will interface to ACF/TCAM through the 5280 Communications Utilities as well as user-written DE/RPG, COBOL, and Assembler Language programs.

New support provided in the Communications Access Methods (CAMs) allows the user to display Communications Control Block (CCB) status during execution of DE/RPG, COBOL, and Assembler Language programs.

The CCB Status Display function has been implemented in the CAMs (except for SYSBSCBA), and has resulted in increased minimum main storage partition sizes as follows:

CAM	Release 1	Release 2
SYSBSCR	9K	11K
SYBSCEX	18K	21K*
SYSSNAD	22K	25K
SYSSNAR	21K	24K
SYSSNAU	22K	25K

* 19K if a 130-byte CAM I/O buffer is used.

The increase in the minimum partition sizes to contain the above CAMs may require system reconfiguration.

DE/RPG

The "next job" name can now be specified at program execution time. The *name* parameter in the EOJ keyword specifies the object program to be executed upon completion of the current program. This parameter can be a constant name (specified at compile time) or a variable name. Use of a variable name allows the program name to be specified at program execution time via keyboard entry or program logic.

Variable-length records are now supported for communications data transmission. The Length field on the Data Description Specifications form will be used to specify a record length for each communication file (COMM) record. The length specified determines the record length to be transmitted during a WRITE operation. The record length may be less than or equal to the length specified on the file description statement.

Multivolume data sets are now supported using index data sets created by the Sort/Merge Licensed Program (5708-SM1). DE/RPG will use the volume sequence number now included in the index data sets created by the Address out and Index/key sort options of the Sort program. Individual volume indexes created by the Sort program will contain the volume sequence number, and can therefore be merged into a single index data set.

Compiler source error handling has been improved. Compiler source errors will now be classified into three (rather than two) categories: *Informational Error*, *Error*, and *Severe Error*. *Informational Errors* will not cause a compiler halt, but may be bypassed at user option. *Severe Errors* will always cause a compiler halt. Upon completion of compilation, the display screen will show a count of the number of *Informational* and *Error* messages detected by the compiler. All errors will be listed.

Sort/Merge

For Address out and Index key sorts, the output data set records will contain a volume number when the input data set is a volume of a multivolume data set. Individual-volume output data sets can be merged to form a master index data set in support of multivolume data sets.

Utilities

Print Utility

The Print Utility will now support and control the printing of multivolume data sets when using the Data Set Print option. Multiple volumes can be printed without restarting the utility. Volume sequence control will be provided. If the data set contains printer control information, Volume 1 must be the first volume printed.

The Print Utility has been enhanced to allow double spacing in addition to single spaced printing.

System Status Utility

The System Status Utility will now provide for the display or printing of resource allocation table entries contained on an IPL diskette. The logical device address and its corresponding physical device address will be displayed/printed for each partition and system-shared entry.

Diskette Copy Utility

Image Copy and Volume Copy now allow the user the option to copy over existing data on an output diskette.

Diskette/Data Set Clear Utility

The Diskette/Data Set Clear Utility has been enhanced to allow the user to drop or free an unexpired (date protected) data set.

*Diskette Label Maintenance Utility**

The Diskette Label Maintenance Utility has been enhanced to allow the user to delete an unexpired (date protected) data set.

***Note:** In addition to this enhancement to the Diskette Label Maintenance Utility, a new capability is now available in the Verification Diskette, allowing access to the diskette header labels similar to that allowed on the IBM 3740. For more information, refer to the *5280 Machine Verification Manual* (GA21-9357-1).

Program Currency

For purposes of Program Services, Release 1 of these programs will be considered current until May 13, 1981. After that date, all Program Services will be withdrawn. Central Service and Local Service will no longer be provided, and Customer Engineering programming assistance will be available at the applicable CE hourly rates.

Programming RPDs

PRPDs will not be accepted at this time.

Publications

A list of 5280 system publications is attached.

For new users: PID will include the documentation associated with the programs that have been ordered.

For current users: PID will include the formal unlicensed documentation with the program package until February 13, 1981.

All users should have a current SLSS subscription so they will automatically receive publications from Mechanicsburg.

Ordering Instructions

New Users: Ordering information for new users is in the *GSD Guide for Ordering Programs* (ZZ60-0034).

Current Users: Current users will be sent an announcement package which includes a memorandum announcing the availability of Release 2, a preprinted Program Reorder Form (PRF), and ordering instructions.



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CURRENT IBM 5280 DISTRIBUTED DATA SYSTEM PUBLICATIONS

Denotes Current Publications Available From PID

	Form Number	Current
General		
5280 Executive Brochure	G580-0274-0	TNL
5280 Product Flyer	G580-0275-0	None
5280 Communications Brochure	G580-0276-1	None
5280 General Information	GA21-9350-2	None
5280 Planning and Site Preparation Guide	GA21-9351-2	None
5280 Marketing and SE Guide	ZZ60-0598-0	None
5280 Facts Folder	G360-0069-0	None
5280 System Concepts	GA21-9352-2	None
5280 Functions Reference Manual	GA21-9353-0	GN20-9557
5280 Operator's Guide	GA21-9364-0	GN20-9566
Insert Tabs for 5280 Operator's Guide	GX21-9366-0	None
5280 Message Manual	GA21-9354-2	None
5280 Machine Verification Manual	GA21-9357-1	None
5280 User's Setup Procedures	GA21-9365-0	GN20-9567
5280 Cable Assembly Manual	GA21-9341-1	None
5280 Master Index	GA21-9356-1	None
5280 Keyboard Template	GX21-9360-0	None
5280 Data Entry Keytop Graphics	GX21-9355-0	None
5280 Typewriter Keytop Graphics	GX21-9358-0	None
5225 Printer Operator's Guide	GA34-0054-0	None
5225 Models 1, 2, 3, and 4 Customer Setup	GA34-0085-0	None
5256 Printer Operator's Guide	GA21-9260-2	None
5256 Printer Setup Procedure	GA21-9290-2	None
System Control Programming		
5280 System Control Programming Reference/Operation Manual	GC21-7824-0*	GN21-8201
5280 System Control Programming Specifications	GC21-7797-1*	None
5280 System Control Programming Support Logic Manual	SY21-0585-0	SN21-8202
Assembler Language		
5280 Assembler Language Reference Manual	SC21-7790-0*	SN20-9582
5280 Assembler Language Licensed Program Specifications	GC21-7801-0*	None
Communications Utilities		
5280 Communications Reference Manual	SC34-0247-2*	None
5280 Communications Utilities Licensed Program Specifications	GC34-0249-1*	None
5280 Communications Utilities Support Logic Manual	LY34-0166-0*	LN34-1637
DE/RPG		
5280 DE/RPG Reference Manual	SC21-7787-1*	SN21-8196
5280 DE/RPG Licensed Program Specifications	GC21-7798-0*	None
5280 Introduction to DE/RPG	SC21-7803-1	None
5280 DE/RPG User's Guide	SC21-7804-0	SN21-8195
5280 DE/RPG Problem Determination Procedures for the Programmer	SC21-7852-0	None
5280 DE/RPG Debugging Template and Reference Card	GX21-9363-1	None
5280 Data Description Specifications	GX21-9362-1	None
5280 General Utility Specifications	GX21-9361-1	None
RPG Calculation Specifications	GX21-9093-3	None
COBOL		
5280 COBOL Language Reference Manual	GL23-0031-0	None
5280 COBOL Programmer's Guide	SL23-0032-0	None
5280 COBOL Host Compilers Problem Determination Guide	SL23-0043-0	None
5280 OS/VS COBOL Licensed Program Design Objectives	GL23-0027-0	None
5280 DOS/VSE COBOL Licensed Program Design Objectives	GL23-0028-0	None
Sort/Merge		
5280 Sort/Merge Reference/Operation Manual	SC21-7789-0*	SN21-8197
5280 Sort/Merge Licensed Program Specifications	GC21-7800-0*	None
5280 Sort/Merge Support Logic Manual	LY21-0579-0*	LN21-8198

Utilities

5280 Utilities Reference/Operation Manual	SC21-7788-1*	SN21-8199
5280 Utilities Licensed Program Specifications	GC21-7799-0*	None
5280 Utilities Support Logic Manual	LY21-0578-1*	None

Licensed Program Microfiche

The following microfiche has been changed to support Release 2. For customers, these documents are available only from PID.

5280 Assembler Language Assembly Listings	LJB5-0006-1*	None
5280 Communications Utilities Assembly Listings	LJB5-0005-1*	None
5280 DE/RPG Assembly Listings	LJB5-0002-1*	None
5280 Sort/Merge Assembly Listings	LJB5-0004-1*	None
5280 Utilities Assembly Listings	LJB5-0003-1*	None